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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11319 (1985) : Oesophagoscope, Negus' Pattern [MHD 4 : Ear, Nose and Throat Surgery Instruments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

Invent a New India Using Knowledge



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

SPECIFICATION FOR OESOPHAGOSCOPE, NEGUS' PATTERN

1. Scope — Specifies material, dimensions and other requirements for Negus', Pattern of Oesophagoscope with conventional lighting used for diagnostic purposes in ENT surgery.

2. Shape and Dimensions

2.1 The general shape and dimensions of oesophagoscope shall be as shown in Fig. 1.

2.1.1 Tolerances on linear dimensions shall be permitted as given below:

- a) ± 0.1 mm on dimensions up to 10.0 mm,
- b) ± 0.5 mm on dimensions above 10.0 mm and up to 25.0 mm,
- c) ± 1.0 mm on dimensions above 25.0 mm and up to 50.0 mm,
- d) ± 1.5 mm on dimensions above 50.0 mm and up to 100.0 mm, and
- e) ± 2.0 mm on dimensions above 100.0 mm.

2.1.2 Tolerance on angular dimension shall be $\pm 1^\circ$.

2.2 Bulb — The bulb shall be of 2.5 to 3.0 volts and illumination shall be proximal, twin light illumination.

2.3 Locking Mechanism — The pin (see Fig. 1) of the locking mechanism of light carrier shall be such that it is possible to secure it to the handle of the oesophagoscope conveniently and quickly.

3. Material — Brass tube of grade CuZn 30 conforming to IS : 407-1981 'Brass tubes for general purposes (*third revision*)' or Stainless steel sheet of designation 30Cr13 conforming to IS : 1570 (Part 5)-1972 'Schedules for wrought steels for general engineering purposes: Part 5 Stainless and heat resisting steel'.

4. Workmanship and Finish

4.1 A protective coating, if stipulated for brass part shall be plated chromium over nickel conforming to service Grade No. 2 of IS : 4827-1968 'Electroplated coatings of nickel and chromium on copper and copper alloys'.

4.2 The surface of oesophagoscope shall be smooth and free from burs, pits, cracks and other surface defects.

4.3 All the edges shall be even and rounded.

4.4 The bore of the oesophagoscope shall be uniform throughout.

4.5 The lighting shall be sufficiently intense and shall fall on the tip so that the inner part of oesophagus is easily visible.

5. Hardness

5.1 The oesophagoscope if made of stainless steel shall be uniformly hardened and tempered to a hardness of 400 to 500 HV, when tested in accordance with IS : 1501 (Part 1)-1984 'Method for Vickers Hardness test for metallic materials Part 1 HV 5 to HV 100'.

6. Tests

6.1 Corrosion Resistance — The oesophagoscope if made of stainless steel shall be tested by the method specified in IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'. It shall show no sign of corrosion after the test.

7. Sampling and Criteria for Conformity

7.1 Lot — In any consignment, all the oesophoscopes produced from the same material, under similar conditions shall constitute a lot.

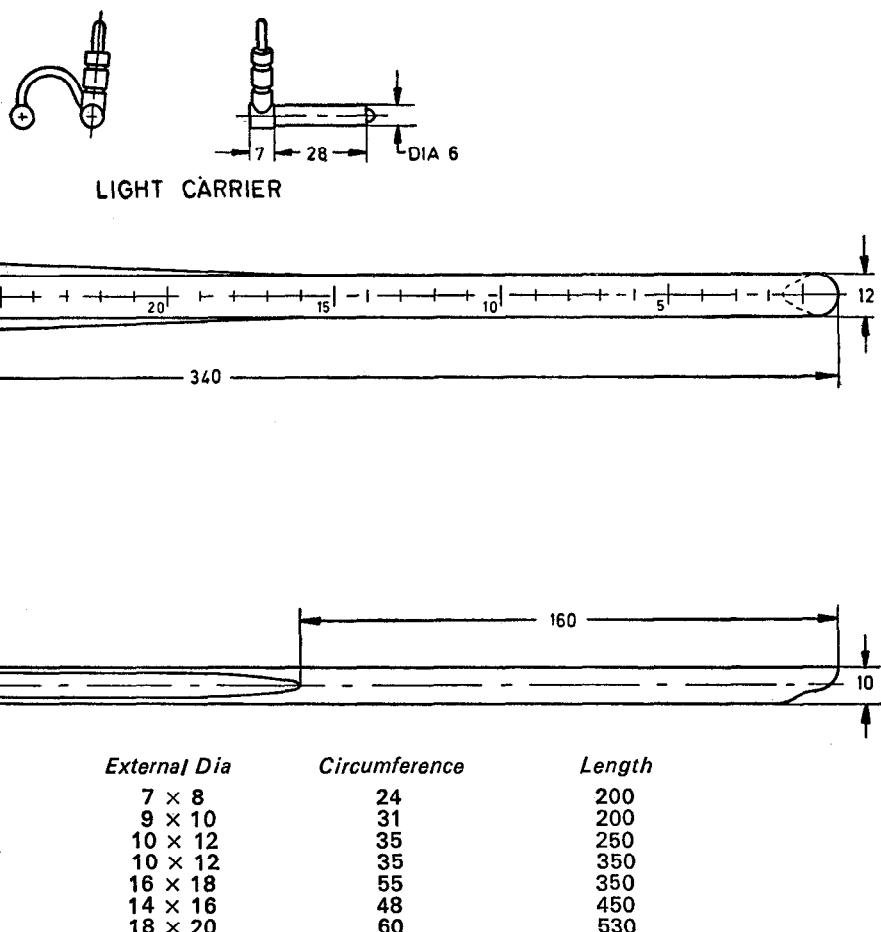


FIG. 1 OESOPHAGOSCOPE, NEGUS' PATTERN

7.2 The number of oesophagoscopes to be selected from each lot shall depend upon the size of the lot and shall be in accordance with col 1 and 2 of Table 1.

TABLE 1 SAMPLING AND CRITERIA FOR CONFORMITY

Lot Size (1)	Sample Size	
	(2)	(3)
Up to 15	2	
16 to 50		3
51 to 150		5
151 and above		8

7.2.1 These oesophagoscopes shall be selected from the lot at random and in order to ensure the randomness of selection, procedures given in IS : 4905-1968 'Methods for random sampling, may be followed'.

7.3 Number of Tests and Criteria for Conformity — All the oesophagoscopes selected at random in accordance with col 1 and 2 of Table 1 shall be tested for shape and dimensions (see 2), workmanship and finish (see 4). The lot shall be considered as conforming to these requirements if none of the oesophagoscopes in the sample is found to be defective in any of these tests.

8. Marking

8.1 Each oesophagoscope shall be legibly and indelibly marked with the following information:

- a) Length and diameter of the tube;
- b) Manufacturer's name, initials, registered trade-mark; and
- c) The country of manufacture.

8.2 The tube shall be marked with graduations on the outside at a distance of 5 cm each, starting from the tip.

8.3 ISI Certification Marking — Details available with the Indian Standards Institution.

9. Packing — As agreed to between the purchaser and the supplier.